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Subsidiary Form 1449A/PTO		Application Number	10/065,157
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>		Filing Date	10/12/02
		First Named Inventor	Steven Teig et al.
		Group Art Unit	2825
		Examiner Name	Tai, B.
Use as many sheets as necessary		Attorney Docket Number	SPLX:P0133
Street	1	of	9

U.S. PATENT APPLICATIONS						
Examiner Initials	Cite No.	U.S. Patent Application Serial Number	Applicant Name	Name of Patent or Applicant of cited document	Date of U.S. Issuance	Related Application Data if any
BT	1.	10/065,060	SPLX.P0072	Steven Teig	01-31-2002	Application filed on the same date, with same specification and drawings, but with different summary and abstract.
	2.	10/065,160	SPLX.P0073	Steven Teig et al.	01-31-2002	Application filed on the same date, with same specification and drawings, but with different summary and abstract.
	3.	10/065,095	SPLX.P0074	Steven Teig et al.	01-31-2002	Application filed on the same date, with same specification and drawings, but with different summary and abstract.
	4.	10/065,047	SPLX.P0075	Steven Teig et al.	01-31-2002	Application filed on the same date, with same specification and drawings, but with different summary and abstract.
	5.	10/061,641	SPLX.P0079	Steven Teig et al.	01-31-2002	Application filed on the same date, with same specification and drawings, but with different summary and abstract.
	6.	10/065,094	SPLX.P0080	Steven Teig et al.	01-31-2002	Application filed on the same date, with same specification and drawings, but with different summary and abstract.
	7.	10/076,121	SPLX.P0081	Steven Teig et al.	02-12-2002	Application with similar, but not identical, specification and drawing as the present application.
	8.	10/062,985	SPLX.P0105	Steven Teig et al.	01-31-2002	Application filed on the same date, with same specification and drawings, but with different summary and abstract.
	9.	10/065,162	SPLX.P0106	Steven Teig	01-31-2002	Application filed on the same date, with same specification and drawings, but with different summary and abstract.
	10.	10/260,584	CDN.P0037	Steven Teig	10-31-2002	
	11.	10/335,987	CDN.P0038	Steven Teig et al.	12-31-2002	
BT	12.	10/395,239	CDN.P0039	Steven Teig et al.	12-31-2002	

Examiner Signature	<i>B. Kint</i>	Date Considered	11/16/04
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Substrate for form 1449A/PTO <b>INFORMATION DISCLOSURE          STATEMENT BY APPLICANT</b> (use as many sheets as necessary)				Application Number 10/66,187
Filing Date 1/31/2002				
First Named Inventor Steven Teig et al.				
Group Art Unit 2825				
Examiner Name Tai B.				
Attorney Docket Number SFLX: F0133				
Sheet	2	of	9	
<b>U.S. PATENT APPLICATIONS</b>				
PT	13.	10/335,005	CDN: P0040	Steven Teig et al.
				12-31-2002

FOREIGN PATENT DOCUMENTS							
Examiner Initials	Chg. No.	Office	Foreign Patent Document Number	Date of Publication MM-DD-YYYY	Name of Patentee or Applicant of Good Document	Pages, Claims, Lines, Which Relate to Passage or Related Figures Appear	*
BT	14.	JP	11-296580	10-29-1990	Matsumoto et al.	with English translation of Abstract	
	15.	JP	2000-082743	03-21-2000	Igarashi et al.	with Japanese Patent Office's English translation of Abstract; and with English translation of the application.	✓
	16.	JP	64-15947	01-19-1986	Ouchi	with English translation of Abstract	
	17.	JP	03-173471	07-26-1991	Tawada et al.	with Japanese Patent Office's English translation of Abstract; and with English translation of the application.	✓
	18.	JP	04-000677	01-05-1992	Fujikura et al.	with English translation of Abstract	
	19.	JP	05-102305	04-23-1993	Sato	with Japanese Patent Office's English translation of Abstract; and with English translation of the application.	✓
BT	20.	JP	05-243370	08-21-1993	Kubota	with Japanese Patent Office's English translation of Abstract; and with English	✓

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Examiner Signature	<i>Bholes</i>	Date Considered	11/16/04
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Substitute for form 1449A-PTO			Application Number	10/660,187	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (use as many sheets as necessary)			Filing Date	1/31/2002	
			First Name of Inventor	Steven Teig et al.	
			Group Art Unit	2825	
			Examiner Name	Tai B.	
Sheet	2	of	9	Attorney Docket Number	SPLX: P0133

### U.S. PATENT APPLICATIONS

13.	10/335,085	CDN.P0040	Steven Teig et al.	12/31/2002
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### FOREIGN PATENT DOCUMENTS

Examiner's Initials	Ch. No.	Office	Foreign Patent Document Number	Kind Code (if known)	Date of Publication MM-DD-YYYY	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines, Whole Paragraphs, or Relevant Figures Appeared	✓
	14.	JP	11-296580		10-29-1999	Matsumoto et al.	With English translation of Abstract.	
	15.	JP	2000-082743		03-21-2000	Igarashi et al.	with Japanese Patent Office's English translation of Abstract; and with English translation of the application.	✓
	16.	JP	04-15947		01-19-1986	Ouchi	with English translation of Abstract.	
	17.	JP	03-173471		07-26-1991	Tawada et al.	with Japanese Patent Office's English translation of Abstract; and with English translation of the application.	✓
	18.	JP	04-006677		01-06-1992	Fujimura et al.	with English translation of Abstract.	
	19.	JP	05-102305		04-23-1993	Sato	with Japanese Patent Office's English translation of Abstract; and with English translation of the application.	✓
	20.	JP	05-243370		09-21-1993	Kubota	with Japanese Patent Office's English translation of Abstract; and with English.	✓

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Examiner Signature	Date Considered
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Substitute for form 1449A-PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (use as many sheets as necessary)				Application Number 10/666,187
				Filing Date 1/5/2002
				First Named Inventor Steven Teig et al.
				Group Art Unit 2825
				Examiner Name Tai B.
Sheet 2	of 5	Attorney Docket Number SFLX:F0135		

U.S. PATENT APPLICATIONS					
13.	10/335,085	CDN:PU040	Steven Teig et al.	12/31/2002	

FOREIGN PATENT DOCUMENTS							
Examiner Initials	Ch. No.	Office	Foreign Patent Document Number	Date of Publication MM-DD-YYYY	Name of Patentee or Applicant of Good Document	Pages, Columns, Lines, Which Abstracts Passages or Related Figures Appear	
	14.	JP	11-298580	10-29-1999	Matsumoto et al.	with English translation of Abstract.	
	15.	JP	2000-082743	03-21-2000	Igarashi et al.	with Japanese Patent Office's English translation of Abstract; and with English translation of the application.	✓
	16.	JP	04-15947	01-19-1986	Ouchi	with English translation of Abstract.	
	17.	JP	03-173471	07-26-1991	Tanaka et al.	with Japanese Patent Office's English translation of Abstract; and with English translation of the application.	✓
	18.	JP	04-009677	01-08-1992	Fujisawa et al.	with English translation of Abstract.	
	19.	JP	05-102305	04-23-1993	Sato	with Japanese Patent Office's English translation of Abstract; and with English translation of the application.	✓
	20.	JP	05-243379	09-21-1993	Kubota	with Japanese Patent Office's English translation of Abstract; and with English	✓

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Substitute for form 1449A/PTO:			Application Number	10/066,187	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)			Filing Date	1/31/2002	
			First Named Inventor	Steven Toly, et al.	
			Group Art Unit	2825	
			Examiner Name	Tol, S.	
Sheet	3	of	9	Attorney Cocket Number	SPLX P0133

## FOREIGN PATENT DOCUMENTS

						translation of the application with Japanese Patent Office's English translation of Abstract and with English translation of the application.	
BT	21.	JP	07-086407	03-31-1995	Miura		✓
BS	22.	JP	09-152279	06-20-1997	Yoshida	with Japanese Patent Office's English translation of Abstract and with English translation of the application.	✓

## NON PATENT LITERATURE DOCUMENTS

Examiner's Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the book (book, magazine, journal, serial, symposium, etc.), and include page(s), volume(s), number(s), edition(s), and/or serial number(s) if available.	PT
BT	23.	Chen, H.P. et al., A Better Algorithm for Rubber-Band Equivalent Transformation for Planar VLSI Layouts, IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, Vol. 15, No. 2, February 1996, pp. 217-227.	
	24.	Chip Model with Wiring Cost Map, August 1993, IBM Technical Disclosure Bulletin, vol. 26, issue 5A, pp. 929-933	
	25.	Dayan, T. et al., Layer Assignment for Pusher Band Routing, UCSC-CR-93-04, January 20, 1993.	
	26.	Dayan, T., Rubber-Band Based Topological Router, A Dissertation, UC Santa Cruz, June 1997.	
	27.	Doed, P. et al., A Two-Dimensional Topological Compactor with Octagonal Geometry, 28 <sup>th</sup> ACM/IEEE Design Automation Conference, pp. 727-731, July 1991.	
	28.	Fujimura, K. et al., Homotopic Snaps Information,	
BS	29.	Hama, T. et al., Curvilinear Detailed Routing Algorithm and its Extension to Wire Spreading and Wire Fattening.	

Examiner Signature	<i>Bhlat</i>	Date Considered	11/16/04
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			First Named Inventor Steven Teig et al.
			Group Art Unit 2825
			Examiner Name Tai B.
			Attorney/Agent/Number SPLX.P0133
Sheet	4	of	9
<b>NON PATENT LITERATURE DOCUMENTS</b>			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS); title of the article (when appropriate); item of the form (book, magazine, journal, serial, symposium, collection, etc.); date, serial volume, issue number (if available); city, state, country where published	+
PT	30.	Flame, T. et al., Topological Routing Path Search Algorithm with Incremental Routability Test, IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, vol. 19, No. 2, February 1999, pp. 142-150.	
	31.	Kobayashi, K. et al., A New Interactive Analog Layout Methodology Based on Rubber-Band Routing, UCSC-CRL-95-12, June 13, 1995.	
	32.	Lin, A. et al., A Fast Algorithm To Test Planar Topological Routability, Technical Report 94-012, pp. 1-16.	
	33.	Lu, Y., Dynamic Constrained Delaunay Triangulation and Application to Multichip Module Layout, A Thesis for Master of Science, UC Santa Cruz, December 1991.	
	34.	Ataley, F.A.L., Testing Homotopic Routability Under Polygonal Wiring Rules, Algorithmica 1996, 15: 1-18.	
	35.	Marston, P. B. et al., An Efficient Sequential Quadratic Programming Formulation of Optimal Wire Spacing for Cross-Talk Noise Avoidance Routing, UCSC-CRL-99-05, March 16, 1999.	
	36.	RM71091316, Use of Relatively Diagonal And Rectangular Wiring Planes in Multilayer Packages, September 1971, IBM Technical Disclosure Bulletin, Vol. No. 14, Issue No. 4, pp. 1316-1317.	
	37.	Stangelaars, D. et al., Geometric Transformations for a Rubber-Band Sketch, A Thesis for a Master of Science in Computer Engineering, UCSC, September 1992.	
	38.	Stangelaars, D. et al., Surf: A Rubber-Band Routing System for Multichip Modules, pp 19-26, 1993.	
	39.	Su, J. et al., Post-Route Optimization for Improved Yield Using Rubber-Band Wiring Model, 1997 International Conference on Computer-Aided Design, pp 700-706, November 1997.	
	40.	Wei-Ming Dai, W. et al., Routability of a Rubber-Band Sketch, 28th ACM/IEEE Design Automation Conference, 1991, pp. 45-55.	
	41.	Xing, Z. et al., A Minimum Cost Path Search Algorithm Through The Obstacles, slide presentation.	
	42.	Xing, Z. et al., Shortest Path Search Using Tiles and Piecewise-Linear Cost Propagation, (IEEE) 2002, pp.145-158.	
	43.	Lin, A More Efficient Distance Vector Routing Algorithm, UCSC-CRL-95-16, March 1997.	
PT	44.	Yu, M.-F. et al., Fast and Incremental Routability Check of a Topological Routing Using a Cut-Based Encoding, UCSC-CRL-97-07, April 14, 1997.	
Examiner Signature			Date Considered 1/16/04

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Submission for form 1449A/PTO <b>INFORMATION DISCLOSURE          STATEMENT BY APPLICANT</b> (use as many sheets as necessary)		Application Number Filing Date First Named Inventor Group Ref. Unit Examiner Name Agency Docket Number	10/050,187 1/31/2003 Steven Tsui et al. 2825 Tol, B. SPLX.P0133
Sheet	5	of	5
<b>NON PATENT LITERATURE DOCUMENTS</b>			
45	Yu, M.-F. et al., Interchangeable Pin Routing with Application to Package Layout, UCSC-CRL-95-10, April 25, 1995.		
46	Yu, M.-F. et al., Pin Assignment and Routing on a Single-Layer Pin Grid Array, UCSC-CRL-95-15, February 24, 1995.		
47	Yu, M.-F. et al., Planar Interchangeable 2-Terminal Routing, UCSC-CRL-95-49, October 10, 1995.		
48	Yu, M.-F. et al., Single-Layer Fanout Routing and Routability Analysis for Ball Grid Arrays, UCSC-CRL-95-18, April 25, 1995.		
49	Knob, R. et al., Faster Algorithms for the Shortest Path Problem, Journal of the Association for Computing Machinery, vol. 37, No. 2, April 1989, pp. 213-223.		
50	Alexander, M. et al., Performance-Oriented Placement and Routing for non-programmable gate arrays, Proceedings of the European Design Automation Conference, pages 80-85, 1995.		
51	Alexander, M. et al., Placement and Routing for Performance-Oriented FPGAs, Layout, VLSI Design, Vol. 7, No. 1, 1995.		
52	Andou, H. et al., Automatic Routing Algorithm for VLSI, 22 <sup>nd</sup> Design Automation Conference, 1985, pp. 783-788.		
53	Baggio, J. et al., Internal, External, and Mixed Visibility Edges of Polygons.		
54	Barger, B. et al., Nearly Optimal Algorithms and Bounds for Multilayer Channel Routing, Journal of the Association for Computing Machinery, pp. 500-542, March 1995.		
55	Brady, L. et al., Channel Routing on a 90° Grid, expanded abstract, pp. 826-831.		
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Examiner Signature	<i>B. H. Lee</i>	Date Considered	11/16/04
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Submission for form 1449a/PTO <b>INFORMATION DISCLOSURE          STATEMENT BY APPLICANT</b> (use as many sheets as necessary)			Application Number 10/068,137
			Filing Date 1/31/2002
			First Named Inventor Steven Teig et al.
			Group Art Unit 2825
			Examiner Name Tai, B.
			Attorney/Agent Number SPLX.P0133
Sheet	6	of	9
<b>NON-PATENT LITERATURE DOCUMENTS</b>			
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Substitute for Form 1449A/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (use as many sheets as necessary)			Application Number 11/066,187
			Filing Date 1/31/2002
			First Named Inventor Steven Toig et al.
			Group And Unit 2825
			Examiner Name Tai, B.
Sheet 7 of 9			Attorney/Agent Number SPLX.FM133
<b>NON PATENT LITERATURE DOCUMENTS:</b>			
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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		Filing Date	1/31/2002
		First Named Inventor	Steven Tsig et al.
		Group A# Unit	2825
		Examiner Name	Tai, B.
Sheet	8	of	9
		Attorney Docket Number	SPLX:P0133
<b>NON PATENT LITERATURE DOCUMENTS</b>			
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Examiner Signature		Date Considered	11/16/04
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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (use as many sheets as necessary)		Filing Date	1/31/2002
		First Named Inventor	Steven Teig et al.
		Group Art Unit	2925
		Examiner Name	Tal. D.
Sheet	9 of 9	Attorney Docket Number	SPLX/PO433
<b>NON PATENT LITERATURE DOCUMENTS</b>			
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114	Zhou, H. et al., An Optimal Algorithm for River Routing with Crosstalk Constraints, 1995		
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## ELECTRONIC INFORMATION DISCLOSURE STATEMENT

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Title of Invention:	Method and apparatus for routing a set of nets						
Application Number:	10/066187						*10/066187*
Confirmation Number:	5277						
First Named Applicant:	Steven Teig						
Attorney Docket Number:	SPLX.P0133						
Art Unit:	2825						
Examiner:	Binh C. Tai						
Search string:	( 4615011 or 4782193 or 5633479 or 5634093 or 5635736 or 6128767 or 6219823 or 6226560 or 6262487 or 6295634 or 6436804 or 6490713 or 6546540 or 6645842 or 4673966 or 4855929 or 5360948 or 5375069 or 5532934 or 5578840 or 5618744 or 5636125 or 5637920 or 5650653 or 5657242 or 5663691 or 5717600 or 5723908 or 5742086 or 5757089 or 5757656 or 5777360 or 5811863 or 5822214 or 5838583 or 5859449 or 5889329 or 5889677 or 5898597 or 5914887 or 5973376 or 5980093 or 6035108 or 6038383 or 6058254 or 6067469 or 6068662 or 6088519 or 6111756 or 6123736 or 20020104061 or 20020100009 or 20020107711 or 20020182844 or 20030005399 or 20030188281 or 20010003843 or 20020174413 or 20030025205 or 20030121017 ).pn.						
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Init	Cite No.	Patent No.	Date	Patentee	Kind	Class	Subclass
PT	1	4615011	1986-09-30	Linsker			
PT	2	4782193	1988-11-01	Linsker			

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6	6128767	2000-10-03	Chapman	
7	6219823	2001-04-17	Hama et al.	B1
8	6226560	2001-05-01	Hama et al.	B1
9	6262487	2001-07-17	Igarashi et al.	B1
10	6295634	2001-09-25	Matsumoto	B1
11	6436804	2002-08-20	Igarashi et al.	B2
12	6490713	2002-12-03	Matsumoto	B2
13	6546540	2003-04-08	Igarashi et al.	B1
14	6645842	2003-11-11	Igarashi et al.	B2
15	4673966	1967-06-16	Shimoyama	
16	4855929	1969-08-08	Nakajima	
17	5360948	1994-11-01	Thornberg	
18	5375069	1994-12-20	Sato et al.	
19	5532934	1996-07-02	Rostoker et al.	
20	5578840	1996-11-26	Scepanovic et al.	
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## US Published Applications:

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Signature

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Examiner Name	Date
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